



Human Factors

research and technology division



Understanding Vertical Guidance

Objective

To integrate modeling, design, and training to improve pilots' understanding of vertical-guidance modes.

Approach

A NASA/university/industry team conducted extensive analyses of vertical-guidance mode logic, using several different modeling approaches.

Modeling results were integrated and tested in a redesign-and-training experiment.

Impact

Pilot performance showed significant and substantial improvement: a 2/3 reduction in predicted errors when using the new design and training.

POC: Everett Palmer, Ph.D.

URL: <http://humanfactors.arc.nasa.gov/ih/>

